

Work Order ID 162839

Thursday, June 15, 2017 3:23:59 PM

162839

Page 1

Item ID: D2512 **Accept** ***N900040100*** **Setup Start *NS1***
Revision ID: **Stop *NS2***
Item Name: Basket Lid
Start Date: 7/4/2017 **Start Qty:** 1.00 ***1*** **Cust Item ID:**
Required Date: 7/10/2017 **Req'd Qty:** 1.00 ***1*** **Customer:**
Reference: SCHEDULED/C

Approvals: **Process Plan:**  **Date:** JUN 15 2017 **Tooling:** **Date:**
QC: **Date:** **SPC (Y/N):** **Date:** **Run Start *NR1***
Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D2512	H								

100 Weld per dwg A/R S.S. rod Batch: **B136920** 0.00
 Large Fab

100

Large Fab

Large Fab

Memo

3.29

1- Weld ribs as per Dwg D2512 using Welding Jig DT 9436

2- Cut D3832-13 Lid Mesh.

3- WELD MESH AND REMOVE SECTIONS OF MESH WHERE
INDICATED AS PER DWG

1x 16 17-6-23

110 QC9- Inspect visual per QSI004- Fusion Welds 0.00

110

QC

Quality Control

Memo

0.00

**DAS
18
9-00**

1 0 17-06-24

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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Accept

N900040100

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Revision ID:

Stop *NS2*

Item Name: Basket Lid

Start Date: 7/4/2017 **Start Qty:** 1.00 ***1***

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Required Date: 7/10/2017 **Req'd Qty:** 1.00 *** 1 ***

Customer:

Reference: SCHEDULED/C

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NB2***

Sequence ID/
Work Center ID

Operation Description

Set Up/ Run Hours

Tool ID**Tool #****Plan
Code**

**Accept
Qty**

Reject
Qty

Reject Number

**Insp.
Stamp**

120

QC5- Inspect part completeness to step on W/O

0.00

120

QC

Memo

0.00

Quality Control

125

Pressure Wash per QSI005 4.3

0.00

125

HandFinish

Memo

0.38

Hand Finishing

DQA: _____ Date: _____



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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐				
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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* Powdercoat Powder Coating	White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum <i>M1371-76</i> Memo 1- Plug all holes prior to Powdercoat 1ST COAT: START TIME: <i>2:30</i> OVEN TEMPERATURE: <i>375°</i> FINISH TIME: <i>2:45</i> 2ND COAT: START TIME: _____ OVEN TEMPERATURE: _____ FINISH TIME: _____	0.00 0.43				<i>1</i>	<i>0</i>	<i>17-07-11</i>	<i>3488</i>
140 *140* HandFinish Hand Finishing	Wing Walk as per dwg QSI005 4.4 Batch <i>M1379-47</i> HandFinishing Memo Wing Walk and Spray Paint black as per Dwg D2512 and QSI 005 4.4 Batch: <i>M137288</i>	0.00 1.72						<i>1</i>	<i>12/07/12</i>

DQA: _____ Date: _____



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Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : ☐							

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Required Date: 7/10/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference: SCHEDULED/C

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	QC3- Inspect Part Finish	0.00							
150									
QC	Memo	0.01				1			DAS 38 9-89
Quality Control									JUL 13 2017
160	Identify as per dwg & Stock Location: <u>40</u>	0.00							
160									
Packaging	Memo	0.01							D 130-201-017 / 6 of 11 162839
Packaging									
170	QC21- Final Inspection - Work Order Release	0.00							
170									
QC	Memo	0.10							17/7/2017
Quality Control									DAS 21 9-89 JUL 19 2017

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Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : ☐							

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162839

D2512

Required Date: 7/10/2017

Required Qty: 1.00

Rev IPP:M03.01.31 AddedD2012-117forD130-701-041KJ/RF
IPP Rev:N 06.04.05 Added level21 EC
IPP REV:O ADDED D3490-1/-3 FOR D130-701-011/-043 10-04-20 JLM
VERIFIED BY:DD
IPP Rev:P 08-08-29 revE as per dwg DD verified by:EC
IPP Rev:Q 08-09-24 plug holes prior to powder coating DD verified
by:EC IPP Rev:R
10.06.29 added pressure wash DD verf:EC IPP REV:S 12.07.27 AS
PER DWG REV:F DD VERF:EC IPP REV:T 12.08.08 AS PER DWG
REV.G DD VERF:EC IPP REV:U 16.11.03 AS PER DWG REV.H
DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2232-1 *D2232-1* Basket Hinge		Manufactured	No			100	Each	21.0000	2	2	**	CC 17-6-19	
				<u>Location</u> WA004 156805			<u>Loc Qty</u> 21 21	<u>Loc Code</u> B157805					
D2236 *D2236* Lid Rib		Manufactured	No			100	Each	8.0000	4	4	**	CC 17-6-19	
				<u>Location</u> WA004 157630			<u>Loc Qty</u> 8 8	<u>Loc Code</u>					
D2506 *D2506* Label Plate		Manufactured	No			100	Each	5.0000	1	1	**	CC 17-6-19	
				<u>Location</u> WA004 157613			<u>Loc Qty</u> 5 5	<u>Loc Code</u>					

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
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Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
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Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : ☐							

Picklist Print

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Work Order ID: 162839

162839

Parent Item: D2512

D2512

Parent Item Name: Basket Lid

Start Date: 7/4/2017

Required Date: 7/10/2017

Start Qty: 1.00

Required Qty: 1.00

* D2512-3
Rib
Manufactured No 100 Each 8.0000 2 2
** CC 17-6-19

Location

Loc Qty

Loc Code

WA004

8

1

7

154032

157743

3162962 →

2x

✓ D2512-5
Rib
Manufactured No 100 Each 24.0000 6 6
** CC 17-6-19

Location

Loc Qty

Loc Code

WA004

24

24

157598

100

Each

6.0000

3

6x

✓ D2512-7
Rib
Manufactured No 100 Each 6.0000 3 3
** CC 17-6-19

Location

Loc Qty

Loc Code

WA004

6

6

157618

100

Each

46.0000

2

3x

✓ D2581
Mounting Bracket
Manufactured No 100 Each 46.0000 2 2
** CC 17-6-19

Location

Loc Qty

Loc Code

WA004

46

2

2

152803

159116

161800

42

2x

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Shop Packet Print

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Parent Item Name: Basket Lid

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Required Date: 7/10/2017

Start Qty: 1.00

Required Qty: 1.00

D3825-043

Manufactured No

100 Each 8.0000 2 2

D3825-043

Rib Assembly (Basket End, Lid)

**

11 17-6-19

Location

Loc Qty

Loc Code

WA004

8

158872

8

2x

D3833-7

Manufactured No

100 Each 6.0000 2 2

D3833-7

Mesh (Lid End)

**

DC 2017-06-22

Location

Loc Qty

Loc Code

WA006

6

153534

2

B153534 → 2x

157604

4

M304EX075-16F

Purchased No

100 sf 749.9000 18.6 18.6

M304FX0 75-16F

Expanded Metal Flat SS

**

DC 2017-06-22

Location

Loc Qty

Loc Code

WA004

749.9

M136991

13.9

M137294

256

M137765

480

B137791 → 19
B137294

(D3832-13)

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DQA: _____ Date: _____

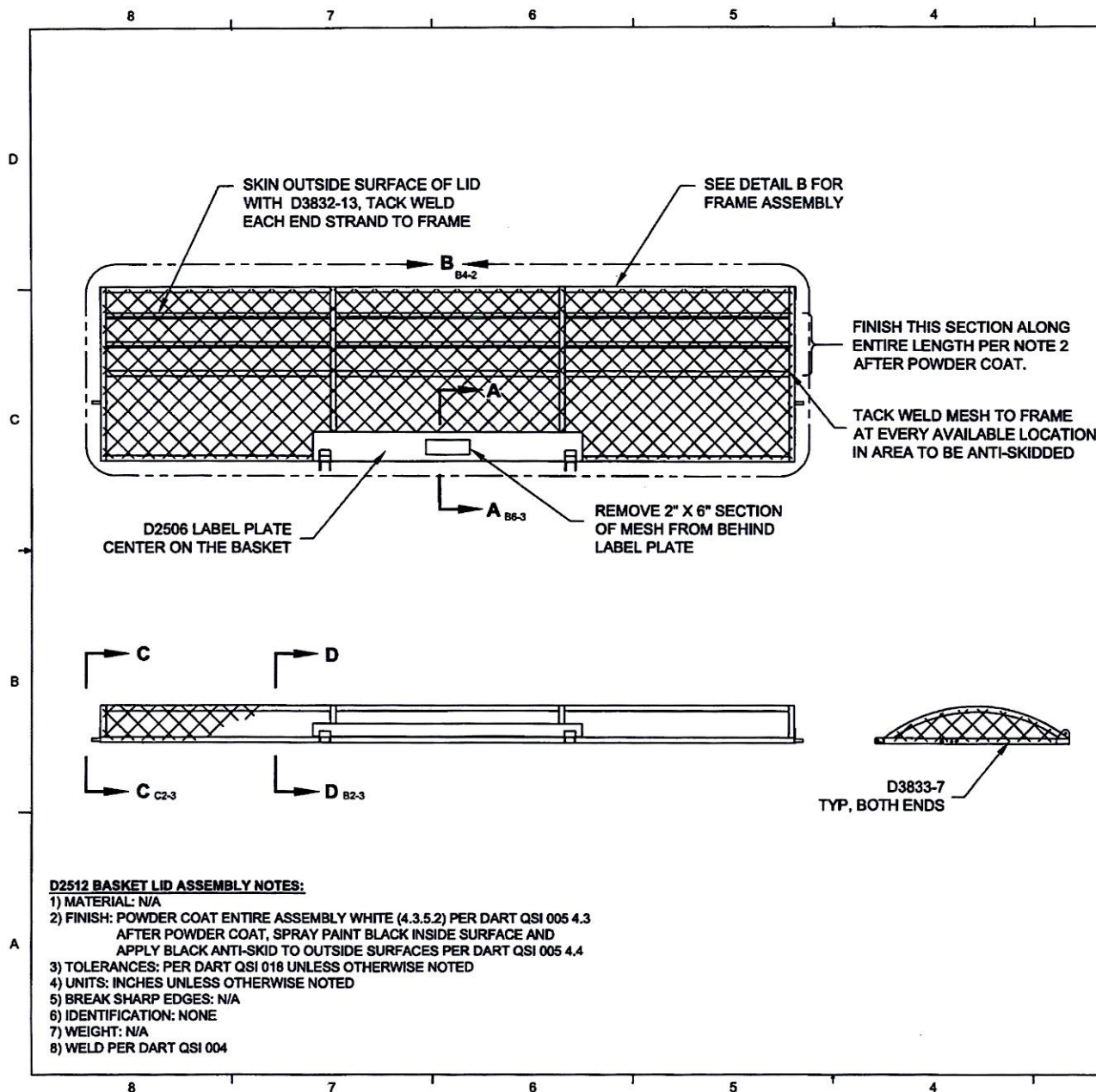


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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							



QTY	PART NUMBER	DESCRIPTION
X	D2512	BASKET LID ASSEMBLY
2	D2512-3	RIB
6	D2512-5	RIB
3	D2512-7	RIB
2	D2232-1	HINGE PLATE
4	D2236	RIB
1	D2506	LABEL PLATE
2	D2581	MOUNTING BRACKET
2	D3825-043	RIB ASSY (BASKET END, LID)
1	D3832-13	MESH (LID)
2	D3833-7	MESH, LID END

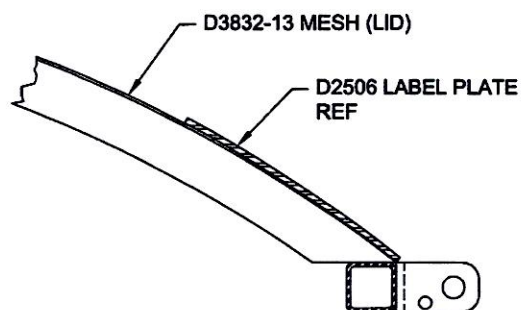
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 RETURN TO
 ENGINEERING
 UNCONTROLLED COPY
 SUBJECT TO AMENDMENT
 WITHOUT NOTICE
 WORK ORDER
 NO. 1623391P

RELEASED

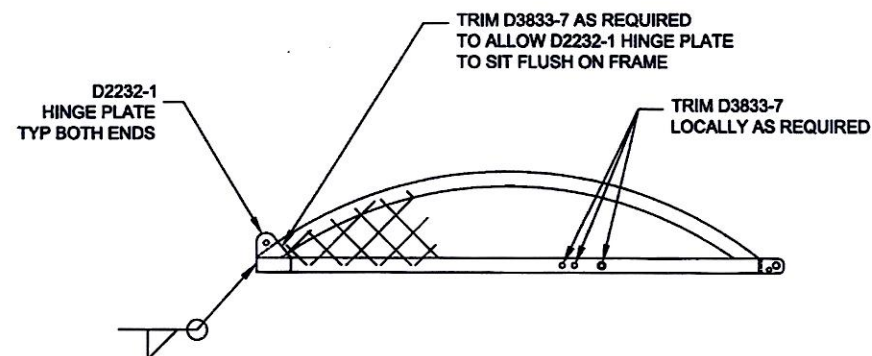
JUN 15 2017

2016 NOV 02
 EN 16-313 97

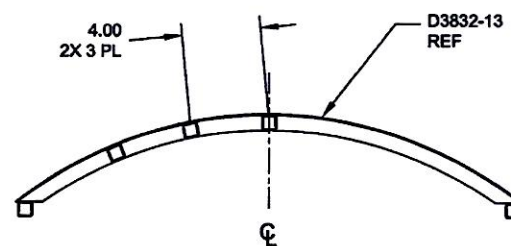
H	REMOVED D2012-117 (ZN A8-2, C3-2)	VS	15.11.04
G	CORRECTED TYPO: D3825-043 WAS D3825-041 (ZN D3-1, B8-2, B1-2)	MB	12.07.26
F	GENERAL REVISION: REFORMATED DWG; DELETED DETAIL E AND RELATED NOTES IN VIEW C-C. REASON: PAR10-50.	MB	12.05.11
E	INCORPORATED D1 & D2. MATERIAL FOR -1, -3, -5, & -7 WAS 0.060 WALL. SHT 3 ZN C4 TOLERANCE REMOVED FROM 95.30 DIM. DRAWING TRANSFERRED TO "B" FORMAT AND UPADTED TO CURRENT STANDARDS. SHT 3 VIEWS INVERTED FOR CLARITY. SHT 2 MESH MATERIAL CALLOUT UPDATED.	AJS	08.06.17
D	CHANGE HINGE	CP	01.04.19
C	REMOVE DOUBLE SKIN SECTION, ADDED MEMBERS, INCORP DEO 9074	DS	99.07.06
B	ADDED LATCH CHANNEL & LABEL PLATE	BW	96.05.24
A	NEW ISSUE	BW	95.11.21
REV.	DESCRIPTION	BY	DATE
DESIGN	BW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	RF	DRAWING NO.	REV. H
MFG. APPR.	PD	D2512	SHEET 1 OF 4
APPROVED		TITLE	SCALE
DE APPR.		BASKET LID ASSEMBLY (350/212)	NTS
DATE	15.11.04	COPYRIGHT © 1995 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL. ANY REPRODUCTION OR DISSEMINATION OF THIS DOCUMENT FOR ANY PURPOSE OR FOR ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



SECTION A-A
(ROTATED 90° CCW)
C6-1



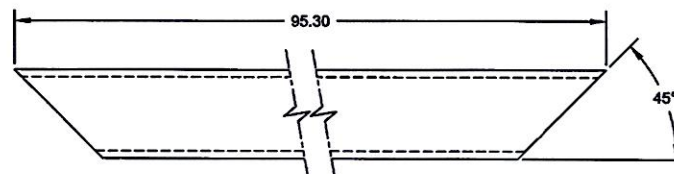
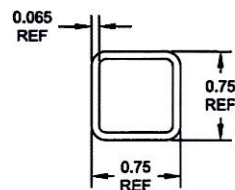
VIEW C-C SIMILAR BOTH END RIBS B8-1



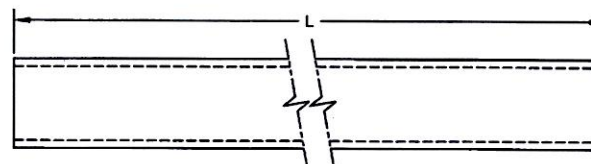
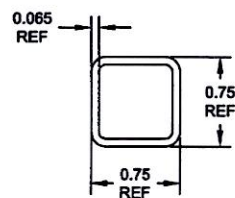
SECTION D-D SAME BOTH CENTER RIBS B7-1

RELEASED
2016 NOV 02 *up*

DESIGN	BW	DART AEROSPACE LTD	
DRAWN	VS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	DRAWING NO.	REV. H
MFG. APPR.	DD	D2512	SHEET 3 OF 4
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	BASKET LID ASSEMBLY (350/212)	NTS
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D2512-3 RIB



D2512-X RIB

DART PART NUMBER	L
D2512-5	30.84
D2512-7	30.63

D2512-5/-7 NOTES:

- 1) MATERIAL: AISI 304/316 SEAMLESS STAINLESS STEEL SQUARE TUBING
PER ASTM A554/A269 MILL FINISH, 0.75 X 0.75 X 0.065 WALL
REF. DART SPEC M304TS0.750W.065
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: N/A

RELEASED

2016 NOV 02 *up*

DESIGN	BW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	RF	DRAWING NO.	REV. H
MFG. APPR.	DD	D2512	SHEET 4 OF 4
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	BASKET LID ASSEMBLY (350/212)	NTS
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